

Microelectronics

Lockheed-Martin Facility Wide Engineering



OVERVIEW

IES provides comprehensive Engineering Design and General Contracting services for Lockheed-Martin. IES is one of eight complete design teams to serve their Sunnyvale and Palo Alto campuses.

One project included the closure of an existing hi-tech off-site facility and relocation of the Class 100 R&D lab to a newly constructed cleanroom facility designed and constructed by IES on the Sunnyvale campus.

PROJECT DETAILS

- Retrofit (E) 30' contaminated high bay to 1800 square foot
- Class 100 lab
- Design and install 125,000 CFM air supply and HVAC
- Design and install new solvent and acid exhaust fans
- Integrate (E) trenching into clean room (raised floor design with utilities below)
- Design and install new Liquid Nitrogen piping system

IES SOLUTIONS

- Design of recyclable DI Water system to save over 3 million gallons of water per year
- Unique design of a high-bay clean room HEPA filtration ceiling system which minimized clean room ventilation and climate control requirements, resulting in significant energy costs savings.
- Design of high performance lighting systems resulting in a substantial reduction in energy consumption and operating costs.
- Innovative use of existing HVAC systems to minimize initial capital investment

LOCATION

Sunnyvale and Palo Alto, California

TEAM (PARTNERS)

Architect: TDS Architects

Structural: Peoples Associates

PROJECT DURATION

2006 to 2010

PROJECT VALUATION

\$50,000 - \$10,000,000

ABOUT IES

Integrated Engineering Services (IES) is an established firm providing innovative and cost-effective solutions to meet your complex engineering, design and operational needs.

When experience, knowledge and innovation matter most.

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